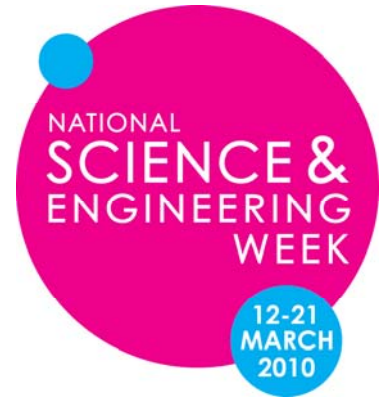


The National Science and Engineering Week Quiz 2010 – Questions only



SECTION A – Level 1

- Round 1: Earth
- Round 2: Endangered Species/Nature
- Round 3: Engineering
- Round 4: Chemistry
- Round 5: Biology
- Round 6: Physics/Space

SECTION B – Level 2

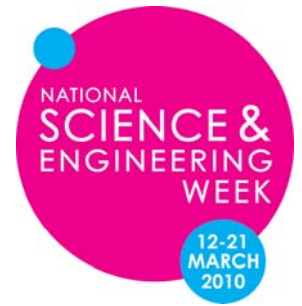
- Round 1: Earth
- Round 2: Endangered Species/Nature
- Round 3: Engineering
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For more information and resources visit: www.nsew.org.uk or call the National Science and Engineering Week team on: 020 7019 4937/63



SECTION A - Level 1

Round 1: Earth



1) Where on the Earth are the length of days and nights equal?

- a) North Pole
- b) The equator
- c) South Pole
- d) At the bottom of the ocean

2) What is the centre of the Earth called?

- a) Crust
- b) Atmosphere
- c) Mantle
- d) Core

3) What is the highest mountain on Earth called?

- a) Mount Everest
- b) Mount Snowdon
- c) Mount Kilimanjaro
- d) Mount Olympus

4) Where is the coldest place on Earth?

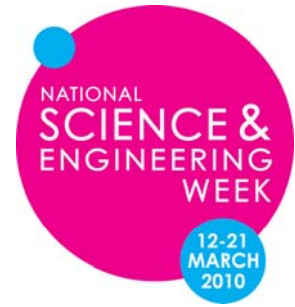
- a) Scotland
- b) Antarctica
- c) Iceland
- d) Russia

5) Approximately how many people live on the Earth?

- a) 7,000
- b) 7 million
- c) 7 billion
- d) 7 trillion

SECTION A – Level 1

Round 2: Endangered Species/Nature



1) What is the largest animal in the world?

- a) Giant Squid
- b) Rhinoceros
- c) Eagle
- d) Blue Whale

2) Why do African elephants have big ears?

- a) So they can fly
- b) To keep them cool
- c) So they can hear better
- d) To keep them warm

3) How many years of its life do Stag Beetles spend as larvae?

- a) 1
- b) 3
- c) 10
- d) 13

4) Where does the Corncrake spend the winter?

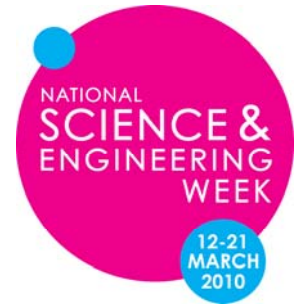
- a) Africa
- b) Australia
- c) Europe
- d) Antarctica

5) Which of the following is NOT a species of Tiger?

- a) Bengal Tiger
- b) Siberian Tiger
- c) African Tiger
- d) Malayan Tiger

SECTION A – Level 1

Round 3: Engineering



1) Where are the fuel tanks stored in an airplane?

- a) At the back of the plane
- b) In the Wings of the plane
- c) At the front of the plane
- d) In the middle of the plane

2) What shapes make up the structure of a Bee Hive?

- a) Circles
- b) Triangles
- c) Hexagons
- d) Squares

3) How high is the Empire State building (not including its lightning rod)?

- a) 59 meters
- b) 381 meters
- c) 856 meters
- d) 2581 meters

4) Who invented the internet?

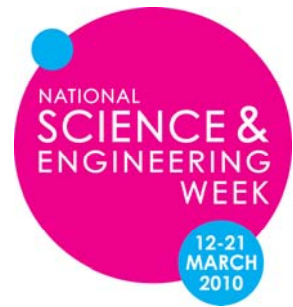
- a) Isaac Newton
- b) Bill Gates
- c) Tim Berners-Lee
- d) Alexander Graham Bell

5) If you are facing east and you turn clockwise 90 degrees which direction will you be facing?

- a) North
- b) South
- c) East
- d) West

SECTION A – Level 1

Round 4: Chemistry



1) N is the chemical symbol for which element?

- a) Nitrogen
- b) Nickel
- c) Neon
- d) Niobium

2) Which of the following is generally not a property of a metal?

- a) Shiny
- b) Transparent
- c) A conductor
- d) Magnetic

3) What is the chemical symbol for water?

- a) H₂O
- b) HO₂
- c) HOO
- d) HO

4) Which of the following is an example of an igneous rock?

- a) Gypsum
- b) Marble
- c) Granite
- d) Chalk

5) What is the centre of an atom called?

- a) The middle
- b) The core
- c) The nucleus
- d) The nebulus

SECTION A –Level 1

Round 5: Biology



1) What do you call an animal that hunts and eats other animals?

- a) Prey
- b) Consumer
- c) Predator
- d) Producer

2) What is the longest bone in the human body?

- a) The femur (thigh bone)
- b) The spine
- c) The tibia (shin bone)
- d) The Humerus (upper arm)

3) Which of these animals are you NOT likely to find in a UK park or garden?

- a) A Stag Beetle
- b) A Bumble Bee
- c) A Koala Bear
- d) A Fox

4) Which of these is most likely to live in a UK woodland?

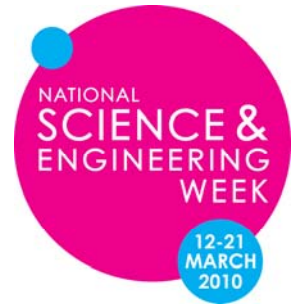
- a) A Crab
- b) An Owl
- c) A Frog
- d) A Zebra

5) What is the main job of a flower's petals?

- a) To attract insects to the flower
- b) To provide food for insects
- c) To make pollen
- d) To look nice for humans

SECTION A – Level 1

Round 6: Physics/Space



1) How long does it take for the moon to travel once around the Earth?

- a) 1day
- b) 27 days
- c) 7 days
- d) 365 days

2) Earth is located in which galaxy?

- a) The Sunflower Galaxy
- b) The Tadpole Galaxy
- c) Andromeda
- d) The Milky Way

3) How many planets from the Sun is the Earth?

- a) 1
- b) 3
- c) 5
- d) 7

4) What shape are the Earth, Sun and Moon?

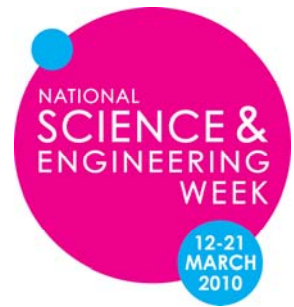
- a) Spherical
- b) Square
- c) Round and flat
- d) Cylinder

5) Which of these animals has never been to space?

- a) Monkey
- b) Dog
- c) Guinea Pig
- d) Horse

SECTION B - Level 1

Round 1: Earth



1) Which of the following does NOT naturally make up part of the Earth's atmosphere?

- a) Krypton
- b) Methane
- c) Nitrogen
- d) Chlorine

2) How much of the Earth's surface is covered in water?

- a) 20–25%
- b) 50–55%
- c) 70–75%
- d) 90–95%

3) Which is the largest ocean in the world covering about 1/3 of the Earth's surface?

- a) Indian Ocean
- b) Arctic Ocean
- c) Atlantic Ocean
- d) Pacific Ocean

4) How old is the Earth?

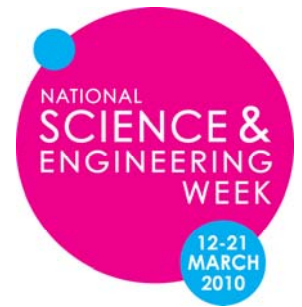
- a) 4,600 years old
- b) 4.6 million years old
- c) 4.6 billion years old
- d) 4.6 trillion years old

5) Most of the Earth's fresh water is found in what form?

- a) Polar Ice Caps
- b) Clouds
- c) Spring and River water
- d) Water in the Oceans

SECTION B – Level 2

Round 2: Endangered Species/Nature



1) Which animal has its taste receptors in its feet and tastes food by standing on top of it?

- a) Butterfly
- b) Hippopotamus
- c) Bats
- d) Geckos

2) Why do Polar bears not eat Penguins?

- a) Because they are vegetarian
- b) Because penguins are too fast for them to catch
- c) Because Polar Bears live in the North Pole and Penguins live in the South Pole
- d) Because Penguins are poisonous to Polar Bears

3) Which of these animals is now extinct?

- a) The Panda
- b) The Passenger Pigeon
- c) The Greater Horseshoe Bat
- d) The Chinese Giant Salamander

4) What is the only remaining small mammal in the UK to have a completely furry tail?

- a) The Common Rat
- b) The Field Mouse
- c) The Dormouse
- d) The Vole

5) What percentage of the worlds' Common Bluebell population is the UK thought to host?

- a) 100%
- b) 70%
- c) 40%
- d) 10%

SECTION B – Level 2

Round 3: Engineering



1) In what year was the first video game called "Tennis for Two" created?

- a) 1938
- b) 1958
- c) 1978
- d) 1998

2) What type of bridge is the Golden Gate Bridge in San Francisco?

- a) Suspension Bridge
- b) Arch Bridge
- c) Beam Bridge
- d) Cable-stayed Bridge

3) The tallest Dam in the world is the Nurek Dam in Tajikistan, how tall is it?

- a) 30 meters
- b) 300 meters
- c) 3,000 meters
- d) 30,000 meters

4) Which of the following has not been used to power a car?

- a) Light
- b) Steam
- c) Electricity
- d) Nuclear

5) In what year was the first supersonic land-speed record by Thrust SSC in the Black Rock Desert USA?

- a) 1970
- b) 1983
- c) 1994
- d) 1997

SECTION B – Level 2

Round 4: Chemistry



1) Au is the chemical symbol for which element?

- a) Iron
- b) Aluminum
- c) Gold
- d) Lead

2) Which of the following is not a noble gas?

- a) Chlorine
- b) Neon
- c) Argon
- d) Krypton

3) What is the most abundant metal in the Earth's crust?

- a) Lead
- b) Iron
- c) Magnesium
- d) Aluminum

4) What are the horizontal rows on the periodic table called?

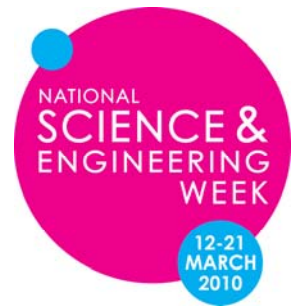
- a) Periods
- b) Groups
- c) Metals
- d) Sets

5) What colour does blue litmus paper turn when dipped in an alkaline solution?

- a) Red
- b) Stays blue
- c) Green
- d) Purple

SECTION B – Level 2

Round 5: Biology



1) Which of the following is NOT found in an animal cell but is found in a plant cell?

- a) Cell membrane
- b) Cytoplasm
- c) Vacuole
- d) Nucleus

2) Which part of a food chain is affected by one animal becoming extinct?

- a) The whole food chain is affected
- b) Only animals at the top of the food chain are affected
- c) Only plants and animals at the bottom of the food chain are affected
- d) The food chain is not affected at all

3) Which of the following is an example of discontinuous variation?

- a) Weight
- b) Height
- c) Eye colour
- d) Foot length

4) Ducklings will sometimes treat a person as their mother. What is this an example of?

- a) Instinct
- b) Imprinting
- c) Conditioning
- d) Imitation

5) Where in the body is most food digested?

- a) The stomach
- b) The small intestine
- c) The gullet
- d) The throat

SECTION B – Level 2

Round 6: Physics/Space



1) How many planets from the Sun is Uranus?

- a) 1
- b) 3
- c) 5
- d) 7

2) How many people have walked on the Moon?

- a) 3
- b) 6
- c) 12
- d) 24

3) Which of these are magnetic poles?

- a) East and West
- b) North and South
- c) Red and Blue
- d) Up and Down

4) What is thermal energy measured in?

- a) Newtons (N)
- b) Mole (mol)
- c) Joules (J)
- d) Grams (g)

5) Batteries store what type of energy?

- a) Chemical energy
- b) Electric energy
- c) Kinetic energy
- d) Thermal energy